

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 40296-0052

Applicant: Kye Nam LEE

Confirmation No.: 9157

Appl. No.: 10/734,131

Examiner: J. Kennedy

Filing Date: December 15, 2003

Art Unit: 2812

Title: METHOD FOR MANUFACTURING MTJ CELL OF MAGNETIC  
RANDOM ACCESS MEMORY

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.56 and 37 CFR §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08A is a listing of documents known to applicant in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. §1.56 and §1.97. A copy of each of the listed documents are being submitted to comply with the provisions of 37 C.F.R. §1.97-1.99.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or is considered to be material to patentability as defined in 37 C.F.R. §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

**RELEVANCE**

The disclosed references came to the Applicant's attention during a search of the corresponding German patent application. A copy of the German Search Report is attached.

02/04/2005 AWONDAF1 00000180 10734131

01 FC:1806

180.00 DP

An English language translation of documents B08-B09 are not readily available; however, the absence of such translation does not relieve the PTO from its duty to consider the submitted documents (37 CFR §1.98 and MPEP §609). An English language abstract is provided for the Examiner's consideration.

**TIMING/FEE**

The instant Information Disclosure Statement is being filed after the mailing of a first office action on the merits but before the mailing date of either (1) a final action under §1.113; (2) a notice of allowance under §1.311; or (3) an action that otherwise closes prosecution in the application. The required fee in the amount of \$180.00 in accordance with 37 CFR §1.17(p) is attached. The Commissioner is hereby authorized to charge any deficiency or to credit any overpayment to Deposit Account No. 08-1641.

Applicant respectfully requests that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08A be returned in accordance with M.P.E.P. §609.

Respectfully submitted,

Date: 2/2/05

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By Johnny A. Kumar  
Johnny A. Kumar

Attorney for Applicant  
Registration No. 34,649  
Customer No. 26633

# COMBINED FEE TRANSMITTAL for FY 2005

Effective 12/08/2004. Patent fees are subject to annual revision.

PTO/SB/17 (12-04) (Revised) (For payment of 37 CFR 1.17 fees including (f), (g), (h), & (i))

☐ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$180.00)

Complete if Known

Application Number	10/734,131
Filing Date	December 15, 2003
First Named Inventor	Kye Nam LEE
Examiner Name	J. Kennedy
Art Unit	2812
Attorney Docket No.	40296-0052

## METHOD OF PAYMENT (check one)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 08-1641

Deposit Account Name: Heller Ehrman White & McAuliffe LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below

☒ Credit any overpayments and charge any deficiencies

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the deposit account

## FEE CALCULATION (continued)

4. PETITION FEES UNDER 37 CFR 1.17 (f)	Fee Paid
Fee Code: 1462 Fee \$ 400 For petitions filed under: § 1.53(e); § 1.57(a); § 1.182; § 1.183; § 1.378(e); § 1.741(b)	

5. PETITION FEES UNDER 37 CFR 1.17 (g)	Fee Paid
Fee Code: 1463 Fee \$ 200 For petitions filed under: § 1.12; § 1.14; § 1.47; § 1.59; § 1.103(a); § 1.136(b); § 1.295; § 1.296; § 1.377; § 1.550(c); § 1.956; § 5.12; § 5.15; § 5.25	

6. PETITION FEES UNDER 37 CFR 1.17 (h)	Fee Paid
Fee Code: 1464 Fee \$ 130 For petitions filed under: § 1.19(g); § 1.84; § 1.91; § 1.102(d); § 1.138(c); § 1.313; § 1.314	

7. PROCESSING FEES UNDER 37 CFR 1.17 (i)	Fee Paid
Fee Code: 1808 (1803 for § 1.221) Fee \$ 130 For petitions filed under: § 1.28(c)(3); § 1.41; § 1.48; § 1.52(d); § 1.53(b)(3); § 1.55; § 1.99(e); § 1.103(b); § 1.103(c); § 1.103(d); § 1.217; § 1.221; § 1.291(c)(5); § 1.497(d); § 3.81	

## FEE CALCULATION

### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Applicati on Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Entity Fee (\$)	Small Entity Fee (\$)	Entity Fee (\$)	Small Entity Fee (\$)	Entity Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	135	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
SUBTOTAL (1)							\$

### 2. EXTRA CLAIM FEES

Entity Fee (\$)	Small Entity Fee (\$)	Fee Description
50	25	Each claim in excess of 20 or, for Reissues, each claim in excess of 20 and more than in the original patent
200	100	Each Independent claim in excess of 3 or, for Reissues, each independent claim more than in the original patent
360	180	Multiple dependent claim, if not already paid
Total Claims		-20** =
Independent Claims		-3** =
Multiple Dependent		
SUBTOTAL (2)		\$

### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof (round up to the whole number). See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s)

Total Sheets		Extra Sheets		Number of each additional 50	Fee (\$)		Small Entity Fee (\$)
	-100 =		1900/50 =		x 250	OR	x 125
SUBTOTAL (3)					\$		

### 8. OTHER FEES

Entity Fee (\$)	Entity Fee (\$)	Fee Description	Fee Paid
130	65	Surcharge - late filing fee or oath	
50	25	Surcharge - late provisional filing fee or cover sheet	
130	130	Non-English specification	
2,520	2,520	For filing a request for <i>ex parte</i> reexamination	
920*	920*	Requesting publication of SIR prior to Examiner action	
1,840*	1,840*	Requesting publication of SIR after Examiner action	
110	55	Extension for reply within first month	
430	215	Extension for reply within second month	
980	490	Extension for reply within third month	
1,530	765	Extension for reply within fourth month	
2,080	1,040	Extension for reply within fifth month	
340	170	Filing a brief in support of an appeal	
790	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1,510	1,510	Petition to institute a public use proceeding	
110	55	Petition to revive - unavoidable	
1,370	685	Petition to revive - unintentional	
50	50	Processing fee under 37 CFR 1.17(q)	
180	180	Submission of Information Disclosure Stmt	180
300	150	Request for oral hearing	
790	395	For each additional invention to be examined (37 CFR 1.129(b))	
790	395	Request for Continued Examination (RCE)	
900	900	Request for expedited examination of a design application	

Other fee (specify)

**SUBTOTAL (4+5+6+7+8)** \$ 180

\* Reduced by Basic Filing Fee Paid

## SUBMITTED BY

Name (Print/Type) Johnny A. Kumar

Signature

*Johnny A. Kumar*

Registration No. (Attorney/Agent)

34,649

Date

2/2/05

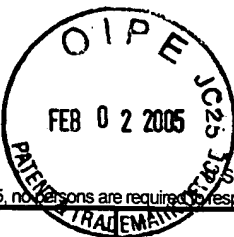
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Please type a plus sign (+) inside this box →

+



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

### Complete if Known

Application Number	10/734,131
Filing Date	December 15, 2003
First Named Inventor	Kye Nam LEE
Group Art Unit	2812
Examiner Name	J. Kennedy
Attorney Docket Number	40296-0052

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	B01	5,026,682		Clark et al.	6/25/1991	
	B02	5,874,886		Araki et al.	2/23/1999	
	B03	5,955,211		Maeda et al.	9/21/1999	
	B04	6,181,537	B1	Gill	1/30/2001	
	B05	6,195,240	B1	Gill	2/27/2001	
	B06	6,205,052	B1	Slaughter et al.	3/20/2001	

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>0</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B07	EP	1 416 504	A2	Hewlett-Packard Development Co., LP	5/6/2004		
	B08	JP	2001068760	A	HITACHI LTD	3/16/2001		
	B09	JP	2000268330	A	VICTOR CO OF JAPAN LTD	9/29/2000		

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC